

**AGENCY OF NATURAL RESOURCES
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
1 NATIONAL LIFE DRIVE, MAIN 2
MONTPELIER, VT 05620-3521**

**DRAFT INDIRECT
DISCHARGE PERMIT**

Permit No.: ID-9-0106
PIN: BR77-0003

SECTION A - "ADMINISTRATION"

In compliance with provisions of 10 V.S.A. §1263, and in accordance with the following conditions, the permittee:

Lamoille Union School District #18
736 Vermont Route 15 West
Hyde Park, VT 05655

is authorized to discharge treated domestic sewage from an existing subsurface disposal system serving the Lamoille Union Middle & High School and the Green Mountain Technology Career Center in Hyde Park, Vermont to groundwater and indirectly into the Lamoille River.

A1. Permit Summary:

Expiration Date	June 30, 2021
Type of Waste	Treated Domestic Sewage
Treatment System	Septic Tank, FAST Units
Disposal System	Leachfield
Town	Hyde Park
Drainage Basin	Lamoille River
Receiving Water	Tributary to Lamoille River
Design Capacity	14,400 gallons per day (gpd)
Drainage Area	Approx. 1.43 sq. mi.
Stream Flow:	
Low Median Monthly Flow (LMMF)	Est. 0.85 c.f.s. (549,000 gpd)
Dilution Ratio (Stream Flow to wastewater)	40:1 at LMMF

A2. Compliance Schedule:

The following schedule summarizes the actions and requirements necessary for compliance with the conditions of this permit. The permittee shall complete the requirements in accordance with the dates indicated. See the designated section for specific details.

<u>Condition # & Description</u>	<u>Schedule Date</u>
A3. Apply for renewal of Indirect Discharge Permit	March 31, 2021
D2(A). Have a Vermont Registered Professional Engineer complete an inspection of sewage collection, treatment and disposal system.	Annually during April
D2(B). Submit Inspection Report	Annually, by July 1st
D2(C). Submit Schedule for implementing engineer's recommendations	Annually, by July 1st
D3. Notify Secretary of pumping of septic tank and septage disposal	As specified
D7. Employ a Certified Operator	As specified
E1(A). Record water meter readings	Daily
E1(B). Record effluent pump hour readings	Weekly
E1(C). Submit water meter readings, gallons used and effluent pump hour readings and sewage pumped	Quarterly
E2. Collect effluent samples prior to and following FAST treatment units	As specified

A3. Expiration Date:

This permit, unless revoked, or amended shall be valid until June 30, 2021 despite any intervening change in Water Quality Standards or the classification of receiving waters. Renewal of this Indirect Discharge Permit will be subject to all rules applicable at the time of application for renewal.

The permittee shall apply for an Indirect Discharge Permit renewal by March 31, 2021 for continued authorization to discharge treated sewage. For the purposes of Title 3, an application for renewal of this indirect discharge permit will be considered timely if a complete application is received by the expiration date.

A4. Effective Date:

This permit becomes effective on the date of signature.

A5. Revocation:

The Secretary may revoke this permit in accordance with 10 V.S.A. §1267.

A6. Transfer of Permit:

This permit is not transferable without prior written approval of the Secretary. The permittee shall notify the Secretary immediately, in writing, before any sale, lease or other transfer of ownership of the property from which the permitted discharge originates. The proposed transferee shall make application for a permit to be reissued in their name. Failure to apply shall be considered a violation of this permit. Responsibility for compliance with the conditions of this permit shall be the burden of the permittee until such time as transfer of the permit to the transferee is complete. This permit shall be transferred only upon showing by the permittee or proposed transferee of compliance with the following conditions:

- a. The transferee shall be a legal entity, financially and technically competent to operate, inspect, maintain and replace the system.
- b. The transferee shall demonstrate that they have the legal authority to raise revenues for the proper operation, inspection, and maintenance of the system.
- c. The transferee shall provide a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the current and new permittee(s) to the Secretary.

A7. Minor Modifications of Permits:

The Secretary may modify this permit without requiring a permit application, a public notice, or a public hearing to correct typographical errors, or to increase the monitoring frequency in accordance with Condition E(4) of this permit.

A8. Indirect Discharge Rules:

This permit authorizes an existing indirect discharge.

This indirect discharge was reviewed and qualified for an Indirect Discharge Permit in accordance with Section 14-603 (b) of the Indirect Discharge Rules for existing indirect discharges of sewage. No increase in sewage volume is allowed without the written approval of the Secretary.

A9. Right of Agency to Inspect:

The permittee shall allow the Secretary or the Secretary's authorized representative upon the presentation of their credentials and at reasonable times:

- a. To enter upon permittee's premises in which any effluent source, treatment or disposal system is located or in which any records are required to be kept under the conditions of the permit;
- b. To have access to and copy any records required to be kept under conditions of this permit;
- c. To inspect any monitoring equipment or method required in this permit;
- d. To sample any discharge of waste, groundwater or surface water; and
- e. To inspect any collection, treatment, pollution management and disposal facilities required by this permit.

A10. Permit Availability:

A copy of this permit shall remain at the office of the permittee and, upon request, shall be made available for inspection by the Secretary.

A11. Minor Modifications to System:

Minor modifications of the engineering design which do not reduce the treatment effectiveness or increase the capacity of the system may be approved in writing by the Secretary without permit amendment.

A11. Minor Modifications to System (continued):

Before making modifications to the treatment and/or disposal system the permittee shall submit plans to the Secretary for review and approval. These plans must be approved before any of the modifications or additions are made.

A12. Correction of Failed Systems:

The Secretary may, upon discretion, issue an Amendment to the Indirect Discharge Permit for the design and reconstruction of a failed wastewater disposal system where the replacement system design was not previously approved.

Before reconstruction of the failed system the permittee shall submit plans to the Secretary for review and approval. These plans must be approved before any reconstruction occurs. Due to the urgency of the need to correct failed disposal systems, the Secretary will process these Amendments as soon as possible.

SECTION B "INDIRECT DISCHARGE"

B1. Location of Indirect Discharge:

This existing indirect discharge is located in the Lamoille River drainage basin in the Town of Hyde Park, Vermont. The indirect discharge can be located on the USGS Hyde Park, Vermont 15' quadrangle map at Latitude N 44° 36' 05" and Longitude W 72° 38' 04".

B2. Nature of Indirect Discharge:

When the initial indirect discharge permit was issued on September 24, 1991 the wastewater collection, treatment and disposal system consisted of two leachfield beds which alternated by means of a dosing siphon. The total disposal area available was approximately 12,000 square feet. At 1.2 gallons per day per square foot, the total disposal capacity was 14,400 gallons per day.

This permit authorizes the continued operation of 100% dual alternating disposal fields designed in accordance with the Indirect Discharge Rules, effective February 29, 1996 with a maximum application rate of 0.9 gpd/sq. ft. Fixed Activated Sludge Treatment (FAST) units provide treatment of the septic tank effluent. Effluent filters have been installed in the septic tanks.

The number of students and staff to be served by the system shall be authorized by a Water Supply and Wastewater Disposal permit. The disposal capacity of the system shall not exceed the previously permitted 14,400 gallons per day.

SECTION C "SYSTEM APPROVALS"

C1. Previous Approvals:

The sewage treatment and disposal system for the Lamoille Union High School Treatment and Disposal System was constructed in accordance with the following approved plans and specifications stamped and signed by David Ring, P.E. of Shire Town Engineering, except as noted in an August 27, 2001 letter:

Sheet # SP1.1 entitled "Site Plan of Lamoille Union High School, Hyde Park, Vermont - Fast Wastewater System" revised February 21, 2001.

Sheet # C1.1 entitled "Wastewater Basis of Design - Fast Wastewater System for Lamoille Union High School" dated October 24, 2000, last revised February 21, 2001.

Sheet # C1.2 entitled "Wastewater Basis of Design - Fast Wastewater System for Lamoille Union High School" dated October 24, 2000, last revised February 21, 2001.

Sheet # C1.3 entitled "Design Specifications & Notes - Fast Wastewater System for Lamoille Union High School" dated October 24, 2000, last revised February 21, 2001.

Sheet # C1.4 entitled "Wastewater System Details - Fast Wastewater System for Lamoille Union High School" dated October 24, 2000, last revised February 21, 2001.

Sheet # C1.5 entitled "Biomicrobics System Details - Fast Wastewater System for Lamoille Union High School" dated October 24, 2000, last revised February 21, 2001.

Sheet # C1.6 entitled "Biomicrobics Control Details - Fast Wastewater System for Lamoille Union High School" dated October 24, 2000, last revised February 21, 2001.

Sheet # C1.7 entitled "Pump Station Details - Fast Wastewater System for Lamoille Union High School" dated October 24, 2000, last revised February 21, 2001.

Sheet # C1.8 entitled "Pump Control Details - Fast Wastewater System for Lamoille Union High School" dated October 24, 2000, last revised February 21, 2001.

Sheet # C1.9 entitled "Miscellaneous Design Details - Fast Wastewater System for Lamoille Union High School" dated October 24, 2000, last revised February 21, 2001.

C1. Previous Approvals (continued):

Sheet C1.11 entitled "Gravity Sewer Plan & Profile Sheet - Fast Wastewater System Lamoille Union High School, Hyde Park, Vermont" dated September 24, 2000, last revised February 21, 2001.

Sheet A2.1 entitled "Control Building Plans" dated October 4, 2000, last revised February 21, 2001; and

the document entitled "Specifications for the Fast Wastewater Treatment System for Lamoille Union School, dated February 27, 2001.

SECTION D "SYSTEM OPERATION"

D1. General Operating Requirements:

The sewage treatment and disposal system shall be operated at all times in a manner that will: (1) not permit the discharge of sewage onto the surface of the ground; (2) not result in the surfacing of sewage; (3) not result in the direct discharge of sewage into the waters of the State; and (4) not result in a violation of the Vermont Water Quality Standards.

In accordance with accepted design practices, the effluent disposal rate to the disposal fields shall not exceed 14,400 gallons per day except as may occur on an occasional basis during normal operation.

D2. Annual Inspection, Report and Implementation Schedule:

A. Annual Inspection:

Annually, during the month of April, the permittee shall engage a Vermont Registered Professional Engineer to make a thorough inspection, evaluation, and report of the complete sewage collection, treatment and disposal system. The engineer's inspection shall include, but not be limited to the following:

1. inspecting the manhole prior to the septic tank to observe the condition of the sewers and the manhole, and noting any signs of inflow or excess infiltration.
2. evaluation of the accumulation of solids and scum in the septic tank and determining if the septic tank should be pumped out that year;
3. evaluating the condition of the septic tank effluent filters and verifying their cleaning (if necessary) and proper operation;
4. verifying the condition of the distribution manhole and that the flow is being distributed to the two sides of the system evenly;

A. Annual Inspection (continued):

5. verifying the proper operation of the FAST units and determining whether solids need to be removed from the units;
6. walking the disposal fields and checking for evidence of surfacing sewage;
7. checking the depth of ponding in the observation wells for the active disposal fields; and
8. noting any necessary repairs or maintenance that needs to be performed on the sewage collection, treatment and disposal system.

B. Annual Inspection Report:

By July 1st of each year, the permittee shall have a professional engineer submit an annual report including the following items:

1. a complete list of the items inspected and the results of the inspection;
2. measurements of the accumulations of solids and scum in the septic tank and verification that the septic tank has been pumped, if necessary;
3. a tabulation of the depth of ponding in the observation wells; and
4. a discussion of the recommended repairs and maintenance required.

C. Implementation Schedule:

By July 1st of each year, the permittee shall notify the Secretary in writing stating how the engineer's recommendations are to be implemented, including a schedule for the required repair and maintenance items which have not yet been completed.

D3. Septage Disposal:

During the system's annual inspection, the depth of sludge and scum shall be measured in all septic tanks. The septic tanks shall be pumped if: 1) the sludge is closer than twelve (12) inches to the outlet baffle or; 2) the scum layer is closer than three (3) inches to the septic tank outlet baffle or; 3) if otherwise recommended by the inspecting engineer. The permittee shall notify the Secretary in writing of the name and address of the pumper and the municipal sewage treatment facility or other facility approved by the Secretary where the septage is to be or was disposed.

D4. System Operation and Maintenance:

The sewage collection, treatment, and disposal system shall be operated and maintained at all times in a manner satisfactory to the Secretary and in a manner that will not pose a risk to the public health and safety, or cause contamination of drinking water supplies, groundwater and/or surface water.

D5. Reporting of Failures:

The permittee shall immediately report any failure of the sewage collection, treatment, or disposal system to the Secretary, first by telephone within 24 hours of the failure and then in writing within 5 days of the failure. The written notice shall include a discussion of the actions taken or to be taken to correct the failure.

D6. Discharge Restrictions:

The permittee shall not allow any person to discharge or cause to be discharged anything other than sanitary sewage to this collection, treatment and disposal system.

D7. Certified Operator:

The permittee shall employ a wastewater treatment facility operator with a minimum Grade I operator certificate from the Secretary in accordance with the September 25, 2014 Wastewater Treatment Facility Operator Certification Rule.

The permittee shall notify the Secretary in writing immediately of any change of wastewater treatment facility operator. The permittee shall arrange for a temporary certified operator to oversee the system for those periods when the operator is not available.

SECTION E "MONITORING"

E1. Water Meter and Effluent Pump Hour Readings:

A. Water Meter Readings:

On a daily basis when school is in session, the permittee shall record the water meter readings from the meter on the water supply system. The water meter readings shall be taken at approximately same time each day.

B. Effluent Pump Hour Readings:

On a weekly basis, the permittee shall record the effluent pump hours for the pumps in the pump station and determine the weekly gallons of sewage pumped to the disposal field by each pump for the week.

E1. Water Meter and Effluent Pump Hour Readings (continued):

C. Quarterly Reports:

On a quarterly basis by the 15th day of the months of April, July, October, and January, the permittee shall submit to the Secretary the water meter readings, the gallons of water used per day, the effluent pump hour readings and the gallons of sewage pumped per week.

E2. Septic Tank Effluent and FAST Unit Effluent Monitoring:

During the months of October, January, April and June of every year, the permittee shall engage an approved laboratory to sample the septic tank effluent and FAST unit effluent and analyze the samples for Biochemical Oxygen Demand (5-day) and Total Suspended Solids concentrations. The June sample shall be collected before the end of the school year. The results of the analyses shall be submitted to the Secretary by the 15th day of the second month following sampling.

E3. Additional Monitoring:

No other water quality monitoring of the system is required under this permit. However, the Secretary reserves the right to require monitoring of the system in accordance with Condition A(7) should operation of the system fail to meet the requirements of Sections D(1) and D(4).

SECTION F "COMPLIANCE REVIEW"

If the results of any inspection or monitoring indicate that a violation of the effluent disposal rate, or a violation of the Vermont Water Quality Standards, is occurring, or is likely to occur, the Secretary may require the permittee to take appropriate corrective actions to eliminate or reduce the possibility of a violation.

The issuance of this permit, ID-9-0106, to the Lamoille Union School District #18 by the Secretary relies upon the data, designs, judgment and other information supplied by the applicant, the applicant's consultants and other experts who have participated in the preparation of the application. The Secretary makes no assurance that this system will meet the performance objectives of the applicant and no warranties or guarantees are given or implied.

SECTION G "EFFECTIVE DATE"

This Indirect Discharge Permit, ID-9-0106, issued to the Lamoille Union School District #18 for the discharge of treated domestic sewage from the Lamoille Union Middle & High School and the Green Mountain Technology Career Center located in Hyde Park, Vermont, is effective on this ____ day of October, 2016.

Alyssa B. Schuren, Commissioner
Department of Environmental Conservation

By _____ **DRAFT** _____
Bryan Redmond, Director
Drinking Water and Groundwater Protection Division